2023 V3

LEAPTON SOLAR

Monofacial | Bifacial

LP182*182-M-54-MB PERC Dual Glass

Rated Power 395-410W

MBB Cell
New circuit design, lower internal current, lower internal resistance loss.

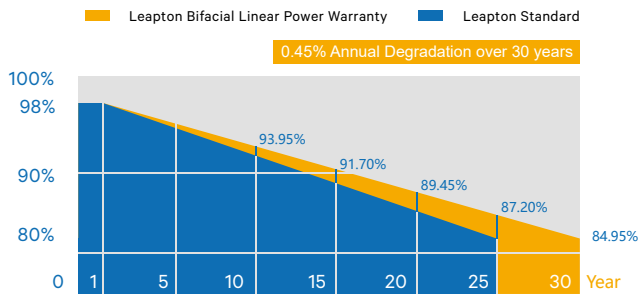
Low Light Features
Higher performance under low light environment.

Bifacial with dual glass
Module adopts 108 pcs of 182*182mm half cells, bifacial module provide an additional 5%~25% output.

PID Protection
Ensure the attenuation probability caused by PID phenomenon is minimized.

Harsh Environmental Adaptability
Strict salt spray and ammonia corrosion test by TUV Nord.

Load Capacity
Mechanical load tests including wind load 2400 Pa and snow load 5400 Pa done by TUV Nord.



IEC 61215-2: 2016
IEC 61730-2: 2016

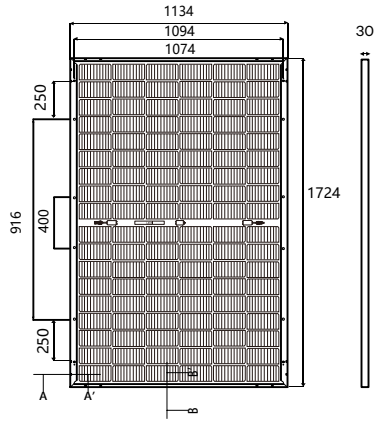
Headquarter : Leapton Energy Co., Ltd.
Tosei Bldg. 6F, 1-2-1 Aioi-cho, Chuo-ku Kobe-shi, Hyogo, 650-0025, Japan
+81-78-382-3182
www.leaptonenergy.jp

Manufacturer : Leapton Solar (Changshu) Co., Ltd.
No.9, Sunshine Avenue, Changshu City, Jiangsu, China
+86-512-88800068
info@leaptonenergy.com
www.leaptonpv.com

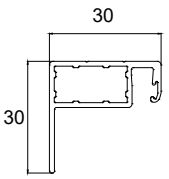
Leapton Energy Co., Ltd.

2023 V3

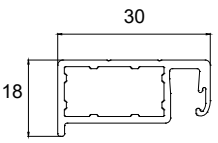
MECHANICAL DIAGRAMS



Frame Cross Section A-A



Frame Cross Section B-B



SPECIFICATIONS

Weight	24kg
Dimensions	1724mm*1134mm*30mm
Cell Dimensions	182*182mm
Cell Amount	54*2 pcs
Maximum System Voltage	1500V
Junction Box	IP68
Frame	Aluminum Alloy
Cable	4mm², N 1100mm/P 1100mm or customized length
Connector	MC4 compatible
Application Level	Class A
Bifaciality	70±5%

ELECTRICAL PARAMETERS AT STC

Power	395W	400W	405W	410W
Open Circuit Voltage	36.74V	36.94V	37.14V	37.34V
Short Circuit Current	13.55A	13.60A	13.65A	13.70A
Maximun Power Voltage	30.62V	30.92V	31.12V	31.32V
Maximum Power Current	12.88A	12.94A	13.00A	13.06A
Module Efficiency	30.62%	20.46%	20.72%	20.97%

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m2, spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL PARAMETERS AT NMOT

Power	291W	295W	298W	302W
Open Circuit Voltage	34.29V	34.49V	34.69V	34.89V
Short Circuit Current	10.65A	10.70A	10.75A	10.80A
Maximun Power Voltage	28.58V	28.78V	28.98V	29.18V
Maximum Power Current	10.18A	10.25A	10.28A	10.35A
Module Efficiency	15.09%	15.09%	15.24%	15.45%

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m2, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

ELECTRICAL PARAMETERS (AT 10% BIFACIAL POWER OUTPUT)

Output Power	435W	440W	446W	451W
Open Circuit Voltage	36.74V	36.94V	37.14V	37.34V
Short Circuit Current	14.91A	14.96A	15.02A	15.07A
Maximun Power Voltage	30.72V	30.92V	31.12V	31.32V
Maximum Power Current	14.15A	14.23A	14.32A	14.40A

TEMPERATURE CHARACTERISTICS

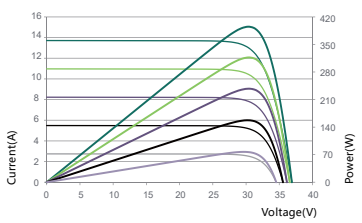
NMOT	41±3°C	Temp Coefficient of ISC	+0.05%/°C
Temp Coefficient of VOC	-0.265%/°C	Temp Coefficient of Pmax	-0.34%/°C

PACKING CONFIGURATION

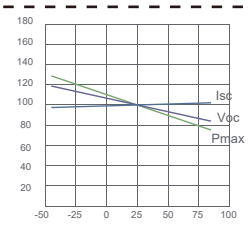
Modules/Pallet	36 Pieces	Modules/40'Container	936 Pieces
Packing Description	26 Pallets, Total=(36+36)x13=936 Pieces		

CHARACTERISTICS

LP182*182-M-54-MB-400W



LP182*182-M-54-MB-400W



MAXIMUM RATING

Output Tolerance	0~+5W
Operating Temperature	-40°C~+85°C
Wind Load/Snow Load	2400pa/5400pa
Fuse Current	25A

15 YEARS Quality Warranty

30 YEARS Power Warranty

Headquarter : Leapton Energy Co., Ltd.
Tosei Bldg. 6F, 1-2-1 Aioi-cho, Chuo-ku Kobe-shi, Hyogo, 650-0025, Japan +81-78-382-3182 www.leaptonenergy.jp
Manufacturer : Leapton Solar (Changshu) Co., Ltd.
No.9, Sunshine Avenue, Changshu City, Jiangsu, China +86-512-88800068 info@leaptonenergy.com www.leaptonpv.com

Leapton Energy Co., Ltd.